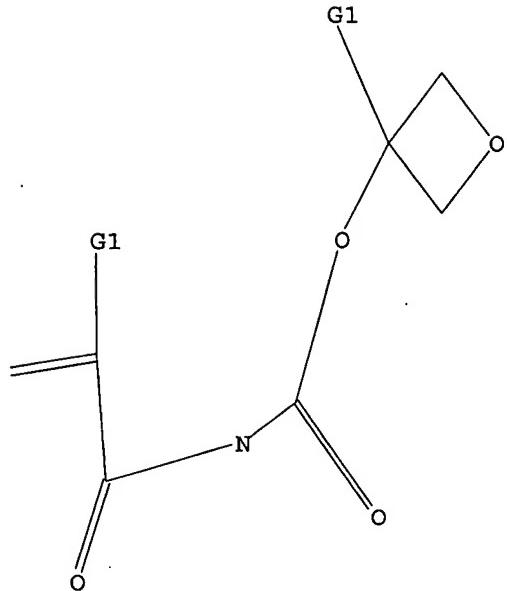


L6 STRUCTURE UPLOADED

=> d 16
L6 HAS NO ANSWERS
L6 STR



G1 Et,n-Pr,n-Bu,t-Bu

Structure attributes must be viewed using STN Express query preparation.

=> s 16 ful
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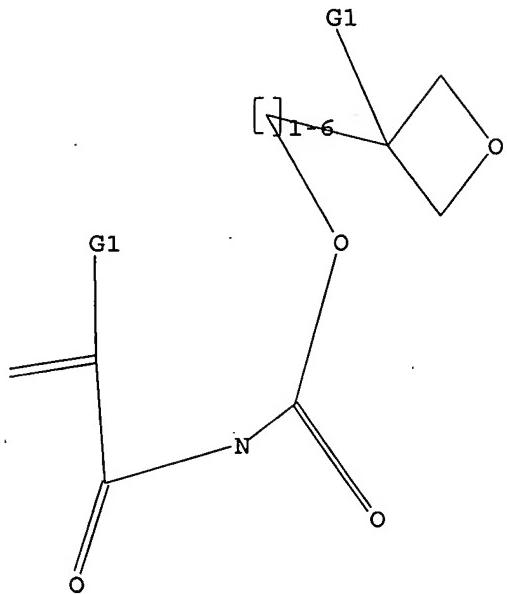
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SEARCH TIME: 00.00.01

L7 0 SEA SSS FUL L6

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L8 STRUCTURE UPLOADED

=> d 18
L8 HAS NO ANSWERS
L8 STR



G1 Et,n-Pr,n-Bu,t-Bu

Structure attributes must be viewed using STN Express query preparation.

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=> s 18 ful
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FULL SCREEN SEARCH COMPLETED -          2 TO ITERATE
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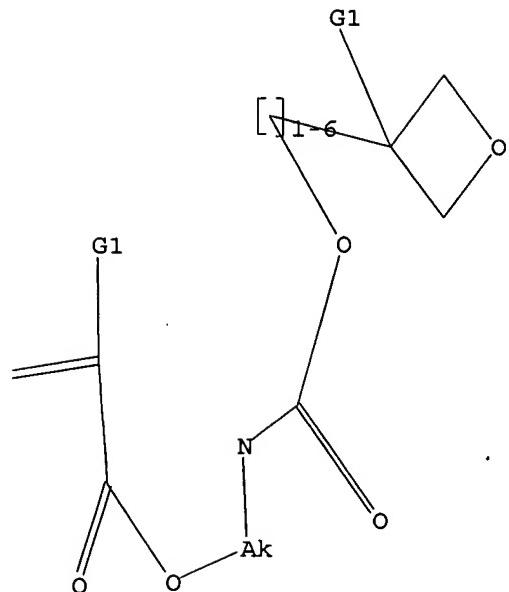
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SEARCH TIME: 00.00.01
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L9 0 SEA SSS FUL L8

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L10 STRUCTURE UPLOADED

```
=> d
L10 HAS NO ANSWERS
L10      STR
```



G1 Et,n-Pr,n-Bu,t-Bu

Structure attributes must be viewed using STN Express query preparation.

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=> s 110 ful
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FULL SCREEN SEARCH COMPLETED - 16 TO ITERATE
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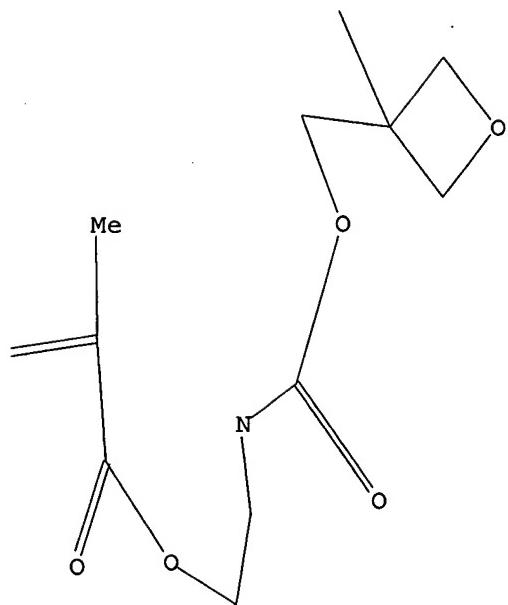
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SEARCH TIME: 00.00.01
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L11 0 SEA SSS FUL L10

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L12 STRUCTURE UPLOADED

```
=> d
L12 HAS NO ANSWERS
L12 STR
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G1 Et,n-Pr,n-Bu,t-Bu

Structure attributes must be viewed using STN Express query preparation.

=> s k12 ful
L13 19180 K12

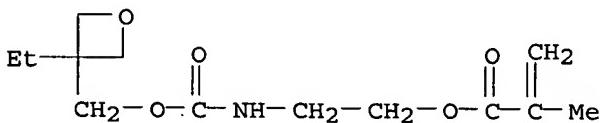
=> s l12 ful
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FULL SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L14 1 SEA SSS FUL L12

=> d

L14 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 862453-34-7 REGISTRY
ED Entered STN: 02 Sep 2005
CN 2-Propenoic acid, 2-methyl-, 2-[{[(3-ethyl-3-oxetanyl)methoxy]carbonyl}amino]ethyl ester (9CI) (CA INDEX NAME)
MF C13 H21 N O5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil caplus			
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FULL ESTIMATED COST	ENTRY	SESSION	
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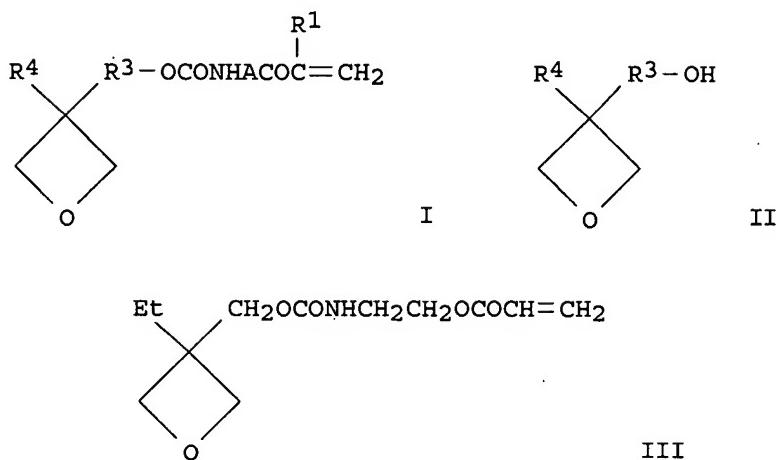
=> s 114
 L15 1 L14

=> d bib abs hitstr

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2005:823679 CAPLUS
 DN 143:212295
 TI Preparation of polymerizable (meth)acryloyl group-containing oxetane monomers
 IN Kamata, Hirotoshi; Morinaka, Katsutoshi; Uchida, Hiroshi
 PA Showa Denko K.K., Japan
 SO PCT Int. Appl., 21 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----

PI	WO 2005075445	A2	20050818	WO 2005-JP2381	20050209
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	JP 2005255671	A	20050922	JP 2005-24723	20050201
	EP 1713787	A2	20061025	EP 2005-710281	20050209
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
	US 2007060760	A1	20070315	US 2006-588072	20060731
PRAI	JP 2004-32867	A	20040210		
	US 2004-545488P	P	20040219		
	WO 2005-JP2381	W	20050209		
OS	MARPAT 143:212295				
GI					



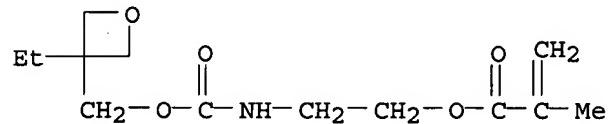
AB Polymerizable (meth)acryloyl group-containing oxetane [I; A = OR₂, direct bond; R₂ = divalent hydrocarbyl (which may contain an oxygen atom in the main chain); R₁ = H, CH₃; R₃ = C₁₋₆ (un)branched alkylene; R₄ = C₁₋₆ (un)branched alkyl] monomers are prepared in high yield and selectivity by the addition reaction of (meth)acrylate isocyanates H₂C:C(R₁)CO(A)NCO with 3-(hydroxyalkyl)-substituted oxetanes (II) in the presence of a tertiary amine or tin-compound catalyst. Thus, 2-acryloyloxyethyl isocyanate was mixed in Et acetate containing dibutyltin dilaurate and reacted with 3-ethyl-3-(hydroxymethyl)oxetane, producing an oxetanyl group-containing methacrylate ester monomer (III).

IT 862453-34-7P

RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of polymerizable (meth)acryloyl group-containing oxetane monomers)

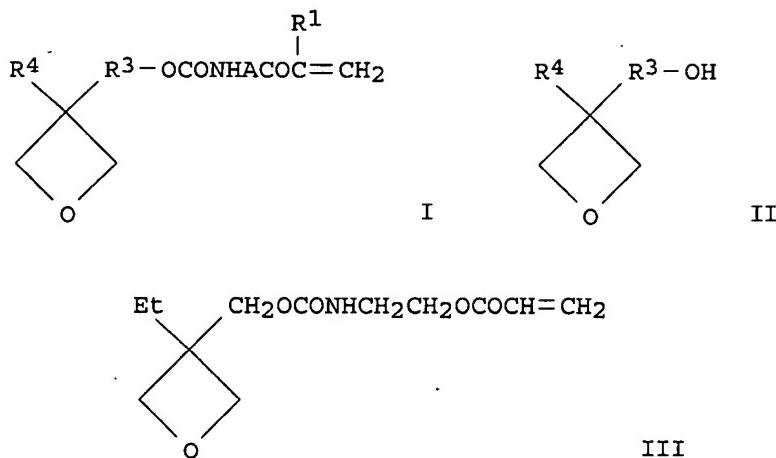
RN 862453-34-7 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[[(3-ethyl-3-oxetanyl)methoxy]carbonyl]aminoethyl ester (9CI) (CA INDEX NAME)



=> d his

BA, HR, IS, YU
 US 2007060760 A1 20070315 US 2006-588072 20060731
 PRAI JP 2004-32867 A 20040210
 US 2004-545488P P 20040219
 WO 2005-JP2381 W 20050209
 OS MARPAT 143:212295
 GI



AB Polymerizable (meth)acryloyl group-containing oxetane [I; A = OR₂, direct bond; R₂ = divalent hydrocarbyl (which may contain an oxygen atom in the main chain); R₁ = H, CH₃; R₃ = C₁₋₆ (un)branched alkylene; R₄ = C₁₋₆ (un)branched alkyl] monomers are prepared in high yield and selectivity by the addition reaction of (meth)acrylate isocyanates H₂C:C(R₁)CO(A)NCO with 3-(hydroxyalkyl)-substituted oxetanes (II) in the presence of a tertiary amine or tin-compound catalyst. Thus, 2-acryloyloxyethyl isocyanate was mixed in Et acetate containing dibutyltin dilaurate and reacted with 3-ethyl-3-(hydroxymethyl)oxetane, producing an oxetanyl group-containing methacrylate ester monomer (III).

=> s oxetane
 L1 4682 OXETANE

=> s acryloyl
 L2 11113 ACRYLOYL

=> s l1 and l2
 L3 28 L1 AND L2

=> d 1-28 bib abs

L3 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2007:116310 CAPLUS

DN 146:172007

TI Fabrication of optical members including index-different sections with variety of shape

IN Koho, Satoshi; Eriyama, Yuichi

PA Jsr Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 17pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2007025091	A	20070201	JP 2005-205132	20050714
PRAI	JP 2005-205132		20050714		

AB The process involves these steps; applying compns. of (A) radical monomers, (B) radical initiators, (C) cationic polymerization monomers, and optionally (D) cationic photopolymn. initiators on supports, exposing the same to light in atmospheric containing ≥ 1 volume% O₂, and heating or exposing the same to light with different wavelength from that of the former, to form polymers of C around and/or upon the preformed polymers of A. The C polymers have smaller n than that of A polymers. Waveguides or microlens arrays can be manufactured as above without development stage.

L3 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:1031534 CAPLUS

DN 145:357658

TI Thermally radical- and thermally cationic-curable vinyl polymer compositions with low viscosity and high mechanical strength

IN Tamai, Hitoshi; Nakagawa, Yoshiki

PA Kaneka Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 44pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006265483	A	20061005	JP 2005-89220	20050325
PRAI	JP 2005-89220		20050325		

AB The compns., useful for seals and gaskets, comprise vinyl polymers having ≥ 2 O₂CCRa:CH₂ (I; Ra = H, C₁-20 organic group) in a mol. containing ≥ 1 I at end groups and epoxides and/or oxetane compds. Thus, a composition comprising acryloyl-terminated Bu acrylate-Et acrylate-2-methoxyethyl acrylate copolymer manufactured by living atom transfer radical polymerization (ATRP) in the presence of CuBr 70, benzoperoxide (Nyper

BW) 0.7, 3,4-epoxycylohexylmethyl 3,4-epoxycylohexanecarboxylate (Celloxide 2021P) 30, thermally cationic polymerization catalyst of (2-butenyl)tetramethylenesulfonium hexafluoroantimonate (Adeka Opton CP 77) 0.45 part was hot-pressed into a sheet showing 30% modulus (JIS K 6301) 0.22 MPa, strength at break 1.42 MPa, and elongation at break 115%.

L3 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2006:489898 CAPLUS
 DN 145:9782
 TI Coating compositions with good scratch, acid, and solvent resistance for automobile bodies
 IN Maeda, Shinichi; Saito, Yoshikazu; Toyama, Masayuki; Hayama, Yasushi
 PA Mitsubishi Rayon Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 28 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2006131670	A	20060525	JP 2004-319366	20041102
PRAI JP 2004-319366		20041102		

AB Title coating compns. comprise (A) a compound having a (meth) acryloyl group and an anhydride group formed by at least two carboxylic acid groups or one ester group and a carboxylic acid group, an acrylic copolymer having at least an epoxy group or an oxetane group, and a radical polymerization initiator. Thus, styrene 20, tridecyl methacrylate 15, glycidyl methacrylate 45, and 4-hydroxybutyl acrylate were polymerized to give a copolymer with epoxy equivalent 315 g/equiv and weight average mol. weight 5000, 315 parts of which was mixed with 2-acryloyloxy trimellitic anhydride obtained from 2-hydroxyethyl acrylate and trimellitic anhydride 283, 1-hydroxycyclohexylphenylketone 18, Sanol LS 765 12, tetraethylphosphonium bromide 6, and Modaflow 1.2 parts, applied on a coated steel plate, dried at 160° for 30 min, and irradiated with a UV ray to give a test piece, showing good acid, solvent, and scratch resistance, and gloss retention, and pencil hardness F.

L3 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2006:199643 CAPLUS
 DN 145:505777
 TI Development of high performance photo-curable polymers and oligomers using novel reactions of oxetane compounds
 AU Nishikubo, Tadatomi; Kameyama, Atsushi
 CS Department of Applied Chemistry, Faculty of Engineering, Japan
 SO RadTech Europe 05: UV/EB--Join the Winning Technology, [Conference Proceedings], Barcelona, Spain, Oct. 18-20, 2005 (2005), Volume 2, 43-47
 Publisher: RadTech Europe Association, The Hague, Neth.
 CODEN: 69HVYN

DT Conference; General Review

LA English

AB A review. The authors recently found many new addition reactions of oxetanes with certain reagents such as phenols and carboxylic acids using certain quaternary onium salts or crown ether complexes as catalysts. More recently, we also found new anionic ring-opening polymerization of oxetanes containing pendant hydroxyl groups and alternating anionic ring-opening copolymer of oxetanes with cyclic carboxylic anhydrides using appropriate catalyst system. These reactions have been widely applied to the synthesis of polymers and thermo-setting reactions of oxetane

resins. In this paper, we would like to introduce the application of these new reactions for the synthesis of high performance photo-curable polymers and oligomers containing pendant or terminal (meth)acryloyl groups. The authors also report the photochem. property of the resulting polymers and oligomers. Furthermore, the authors would like to talk about the synthesis of certain calixarenes and poly(imide)s containing oxetane groups as high performance materials and their photochem. reaction.

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3	ANSWER 5 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN			
AN	2005:1075860 CAPLUS			
DN	143:368070			
TI	Photoradically/photocationically curable compositions with low viscosity			
IN	Okada, Kenji; Nakagawa, Yoshiki			
PA	Kaneka Corporation, Japan			
SO	PCT Int. Appl., 65 pp.			
	CODEN: PIXXD2			
DT	Patent			
LA	Japanese			
FAN.CNT 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.
PI	WO 2005092981	A1	20051006	WO 2005-JP5510 20050325
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2561169	A1	20051006	CA 2005-2561169 20050325
	EP 1728826	A1	20061206	EP 2005-727009 20050325
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
	CN 1938377	A	20070328	CN 2005-80009881 20050325
PRAI	JP 2004-92556	A	20040326	
	WO 2005-JP5510	W	20050325	
AB	Title compns. comprise (A)≥2 acryloyl group-containing vinyl polymers (≥1 acryloyl group is a terminal group), (B) epoxy compds. and/or oxetane compds., (C) photoradical initiators, and (D) photocationic initiators. Thus, Bu acrylate, Et acrylate, and 2-methoxyethyl acrylate were polymerized in the presence of copper (I) bromide, pentamethyldiethylenetriamine, and di-Et 2,5-dibromoadipate, potassium acrylate was added therein and reacted to give acryloyl-terminated copolymer with number average mol. weight 16,900 and polydispersity 1.14, 100 parts of which was mixed with 2,2-diethoxyacetophenone 0.2, Epolite 4000 30, Adeka Optomer SP 172 1.5, and Irganox 1010 1 parts to give a composition with viscosity 150 Pa-s at 23°, which was cured by irradiation to give a cured product, showing 30% modulus 0.52 MPa, tensile strength at break 0.94 MPa, and elongation at break 52%.			

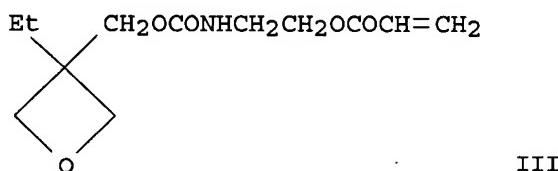
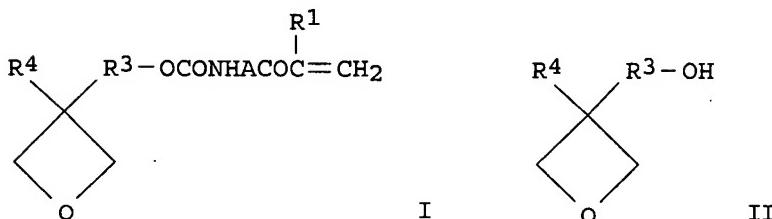
RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2005:823679 CAPLUS
 DN 143:212295
 TI Preparation of polymerizable (meth)acryloyl group-containing oxetane monomers
 IN Kamata, Hirotoshi; Morinaka, Katsutoshi; Uchida, Hiroshi
 PA Showa Denko K.K., Japan
 SO PCT Int. Appl., 21 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005075445	A2	20050818	WO 2005-JP2381	20050209
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	JP 2005255671	A	20050922	JP 2005-24723	20050201
	EP 1713787	A2	20061025	EP 2005-710281	20050209
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
PRAI	US 2007060760	A1	20070315	US 2006-588072	20060731
	JP 2004-32867	A	20040210		
	US 2004-545488P	P	20040219		
	WO 2005-JP2381	W	20050209		
OS	MARPAT	143:212295			
GI					



AB Polymerizable (meth)acryloyl group-containing oxetane [I; A = OR₂, direct bond; R₂ = divalent hydrocarbyl (which may contain an oxygen atom in the main chain); R₁ = H, CH₃; R₃ = C₁₋₆ (un)branched alkylene; R₄ = C₁₋₆ (un)branched alkyl] monomers are prepared in high yield and selectivity by the addition reaction of (meth)acrylate isocyanates H₂C:C(R₁)CO(A)NCO with 3-(hydroxyalkyl)-substituted oxetanes (II) in the presence of a tertiary amine or tin-compound catalyst. Thus, 2-acryloyloxyethyl isocyanate was mixed in Et acetate containing dibutyltin dilaurate and reacted with 3-ethyl-3-(hydroxymethyl)oxetane, producing an oxetanyl group-containing methacrylate ester monomer (III).

L3 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN .

AN 2005:428262 CAPLUS

DN 142:482780

TI Electrically conductive polymers containing condensed indoline rings and their manufacture

IN Kodera, Tatsuya

PA Mitsubishi Paper Mills, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 28 pp.

CODEN: JKXXAF

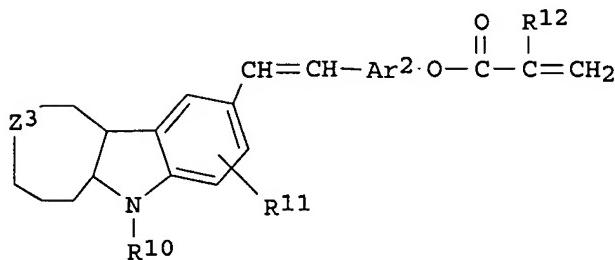
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005126493	A	20050519	JP 2003-361092	20031021
PRAI	JP 2003-361092		20031021		

GI



I

AB The manufacturing method of polymers, useful for electrophotog. photoreceptors, electroluminescent devices, etc., includes polymerizing I (R₁₀ = alkyl, aryl, heterocyclic; R₁₁ = H, amino, alkyl, alkoxy; R₁₂ = H, alkyl; Ar₂ = divalent group; Z₃ = group forming saturated C₅₋₈ ring). Manufacturing method including polymerizing mixts. of I and XCH₂(OCH₂CH₂)_mO₂CC:CH₂R₂ (II; X= 3-R₁-3-oxetanyl; R_{1,2} = H, alkyl; m = 0-2) are also claimed. Thus, I (R₁₀ = Ph, R₁₁ = H, R₁₂ = Me, Ar₂ = phenylene, Z₃ = cyclopentane) and II (X= 3-R₁-3-oxetanyl; R₁ = Et, R₂ = Me, m = 0) were polymerized in the presence of AIBN to give a copolymer with Mn 63,000 and Mw 92,000. A multilayer photoreceptor containing charge-transporting layer comprising the copolymer showed electrostatic potential -600 V at applied voltage -6 kV and light exposure for decreasing the potential in half (E_{1/2}) 1.0 lx-s.

L3 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:155387 CAPLUS

DN 142:246263

TI Dental adhesive composition

IN Anzai, Misaki; Kawaguchi, Motoki

PA Dentsply-Sankin K. K., Japan

SO Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1508321	A1	20050223	EP 2004-19518	20040817
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
	JP 2005065902	A	20050317	JP 2003-298363	20030822
	US 2005054749	A1	20050310	US 2004-920358	20040818

PRAI JP 2003-298363 A 20030822

AB A dental adhesive composition which can quickly be hardened even in the presence of oxygen without using a radical generating agent such as a peroxide or a photopolymer initiator, to give high bond strength, comprises a carboxylic acid having a (meth)acryloyl group and a carboxyl group, both of which are attached to an aromatic ring; a bisphenol A derivative having 2 (meth)acryloyl groups; a hydroxylalkyl (meth)acrylate; a (meth)acrylate derivative having an acid group; and at least one polymerization initiator selected from the group consisting of aromatic amines, aliphatic amines, and aromatic sulfinic acids, the composition being substantially free from any radical polymerization initiator. Thus, a composition was obtained from different methacryloyl monomers.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:13763 CAPLUS

DN 142:103247

TI High-sensitivity shrink-proof holographic recording materials containing epoxides, their manufacture, and their recording

IN Sasa, Nobumasa

PA Konica Minolta Medical & Graphic, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005003958	A	20050106	JP 2003-167597	20030612
PRAI	JP 2003-167597		20030612		

OS MARPAT 142:103247

AB The holog. recording materials contain (A) epoxides containing ≥ 1 substituted oxirane rings on α and/or β sites of oxirane rings, epoxidized fatty acid esters, epoxidized fatty acid glycerides, (B) photopolymer initiators, and optionally, (C) oxetane ring-containing compds. and/or vinyl ethers, (D) (meth)acryloyl group-containing

compds. and photoradical polymerization initiators. The holog. recording materials form matrixes by ≥ 1 polymerization reaction selected from cationic epoxy polymerization, cationic vinyl ether polymerization, cationic alkenyl ether polymerization, cationic arene ether polymerization, cationic ketene acetal polymerization, epoxy-amine step polymerization, epoxy-mercaptopan step polymerization, unsatd. ester-amine step polymerization, unsatd. ester-mercaptopan step polymerization, vinyl-silicone hydride step polymerization, isocyanate-hydroxyl step polymerization, and isocyanate-amine step polymerization. In another alternative, the holog. recording materials form matrixes by curing of inorg. or organic matrix precursors which may comprise R_nM(OR')_{4-n} (M = ≥ 3 -valent metal element, preferably, Si, Ti, Ge, Zr, V, Al; R = alkyl, allyl; R' = C ≤ 4 lower alkyl; n = 1, 2). The holog. recording materials are manufactured by mixing matrix-forming substances, their curing to give matrixes, and irradiation with actinic light for holog. recording.

L3 ANSWER 10 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:1014409 CAPLUS

DN 142:7357

TI Active energy curable resin compositions with good curability and low reflectance angle for optical disks

IN Makino, Shinji

PA Mitsubishi Rayon Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004331872	A	20041125	JP 2003-131585	20030509
PRAI	JP 2003-131585		20030509		

AB Title compns. comprise (A) compds. having ≥ 2 oxetane rings, (B) compds. having ≥ 2 oxirane rings, (C) cationic photoinitiators, (D) compds. having ≥ 1 (meth) acryloyl group, and (E) radical photoinitiators. Thus, a composition comprising OXT 121 25, YD 8125 bisphenol A diglycidyl ether 25, UVI 6990 photoinitiator 3.0, U 2PHA diacrylate 5.0, and Irgacure 184 1.0 parts was applied on a silver-coated Panlite AD 9000TG optical disk and irradiated with a high pressure mercury lamp to give a test piece with reflectance angle 0.16° initially and 0.06° after durability test, transmittance 91% at 400 nm, 93% at 500 nm, and 93% at 700 nm, good surface hardness and reliability.

L3 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:996235 CAPLUS

DN 141:429659

TI Photocuring/thermosetting ink-jet composition and printed wiring board using same

IN Kakinuma, Masahisa; Kusama, Masatoshi; Ushiki, Shigeru

PA Taiyo Ink Manufacturing Co., Ltd., Japan

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004099272	A1	20041118	WO 2004-JP6029	20040507
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1624001	A1	20060208	EP 2004-731714	20040507
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1784432	A	20060607	CN 2004-80012609	20040507
US 2006058412	A1	20060316	US 2005-269836	20051109
PRAI JP 2003-131742	A	20030509		
WO 2004-JP6029	W	20040507		

AB A photocuring/thermosetting ink-jet composition contains (A) a monomer having a (meth)acryloyl group and a thermosetting functional group in the mol., (B) a photoreactive diluent other than the component (A) having a weight-average mol. weight of not more than 700, and (C) a photopolymer. initiator,

and has a viscosity of not more than 150 mPa·s at 25°. A solder resist pattern is directly drawn on a printed wiring board by an ink-jet printer using the above-mentioned composition, and the pattern is primarily cured by irradiation with an active energy beam and then further cured by heat.

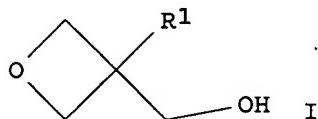
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:1000504 CAPLUS
DN 141:242819
TI Product class 4: organometallic complexes of copper
AU Heaney, H.; Christie, S.
CS Dept. of Chemistry, University of Loughborough, Loughborough, LE11 3TU, UK
SO Science of Synthesis (2004), 3, 305-662
CODEN: SSCYJ9
PB Georg Thieme Verlag
DT Journal; General Review
LA English
AB A review. The use of copper and related complexes in applications to organic synthesis is reviewed.
RE.CNT 1706 THERE ARE 1706 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:929612 CAPLUS
DN 139:397036
TI Oxetane-base polyol (meth)acrylates, their curable compositions, and hard coatings containing them with good heat and water resistance
IN Sauchi, Yasuyuki; Sasaki, Hiroshi
PA Toa Gosei Chemical Industry Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003335854	A	20031128	JP 2002-143719	20020517
PRAI	JP 2002-143719		20020517		
GI					



AB The invention relates to the (meth)acrylates having ≥ 2 (meth) acryloyl groups manufactured by heat-cationic-polymerizing I ($R_1 = H$, alkyl, aryl, arylalkyl) to obtain polyols and esterifying them with (meth)acrylic acid. Thus, a composition comprising 3-ethyl-3-(hydroxymethyl)oxetane homopolymer acrylate was applied on a substrate and UV-cured to give a coating showing pencil hardness 4H, storage modulus $1.08 + 10^9$ at 210° , and water absorption 1.32%.

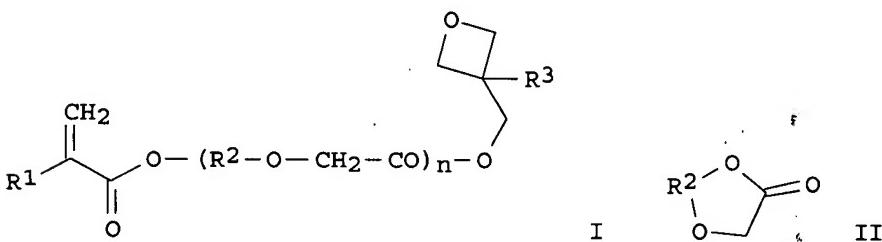
L3 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2007 ACS on STM
AN 2003:368907 CAPLUS

DN 138:369365

TI Oxetane-containing (meth)acrylate esters, their manufacture, and their use as dental monomers and monomers for grafting polyolefins
IN Miyazaki, Kazuhisa; Ota, Seiji; Akie, Hideyuki
PA Mitsui Chemicals Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003137878	A	20030514	JP 2001-332394	20011030
PRAI	JP 2001-332394		20011030		
OS	MARPAT 138:369365				
GI					

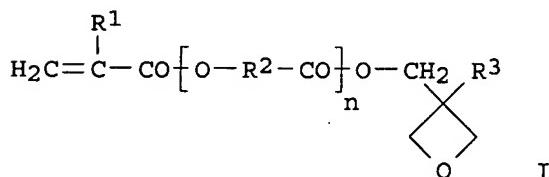


AB Title esters I [$R_1 = H$, Me; $R_2 =$ (ether bond-containing) linear or branched alkylene; $R_3 =$ linear alkyl; $n = 1-4$], useful for coatings and adhesives

as well, are manufactured by ring-cleavage esterification of lactones II (R_2 same as above) with 3-alkyl-3-hydroxymethyloxetane in the presence of base catalysts, followed by esterification of the resulting products with (meth)acryloyl halide. Thus, 1,4-dioxan-2-one was reacted with 3-ethyl-3-hydroxymethyloxetane in the presence of K_2CO_3 to give 28% 3-ethyl-3-oxetanyl methyl 2-hydroxyethoxyacetate, which was esterified with acryloyl chloride to give 40% 3-ethyl-3-oxetanyl methyl 2-acryloxyethoxyacetate.

L3 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2003:366797 CAPLUS
 DN 138:369360
 TI Oxetane-containing (meth)acrylate esters, their manufacture, and
 their use as dental monomers and monomers for grafting polyolefins
 IN Miyazaki, Kazuhisa; Ota, Seiji
 PA Mitsui Chemicals Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003137877	A	20030514	JP 2001-330883	20011029
PRAI	JP 2001-330883		20011029		
OS	MARPAT 138:369360				
GI					



AB Title esters I [R1 = H, Me; R2 = (ether bond-containing) linear or branched alkylene; R3 = linear alkyl; n = 1-4], useful for coatings and adhesives as well, are manufactured by transesterification between HO(R₂CO₂)_nR₄ (R₂, R₄, n = same as above) and 3-alkyl-3-hydroxymethyloxetane in the presence of catalysts, followed by esterification of the resulting products with (meth)acryloyl halide. Thus, Et lactate was reacted with 3-ethyl-3-hydroxymethyloxetane in the presence of Ti(OCHMe₂)₄ to give 80% 3-ethyl-3-oxetanylmethyl lactate, which was esterified with acryloyl chloride to give 89% 3-ethyl-3-oxetanylmethyl 2-acryloxypropanoate.

L3 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:352823 CAPLUS
DN 139:85711
TI Combining Covalent and Noncovalent Cross-Linking: A Novel Terpolymer for Two-Step Curing Applications
AU El-Ghayoury, Abdelkrim; Hofmeier, Harald; de Ruiter, Barteld; Schubert, Ulrich S.
CS Laboratory of Macromolecular Chemistry and Nanoscience, Eindhoven University of Technology and Dutch Polymer Institute, Eindhoven, 5600, Neth.

SO Macromolecules (2003), 36(11), 3955-3959
 CODEN: MAMOBX; ISSN: 0024-9297
 PB American Chemical Society
 DT Journal
 LA English
 AB A terpolymer of poly(Bu acrylate) bearing terpyridine as well as oxetane units was synthesized by free radical polymerization and characterized using NMR, UV-vis, and GPC. Subsequently, UV-vis expts. indicated clearly a noncovalent crosslinking of the terpyridine moieties by addition of iron(II) ions. Moreover, the ability of covalent crosslinking was studied by polymerizing the oxetane rings utilizing Lewis acids. IR spectroscopy and DSC expts. clearly revealed the success of the combination of both steps when utilizing iron(II) ions and AlCl₃.

RE.CNT 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2002:625102 CAPLUS
 DN 137:248043
 TI Atom transfer radical copolymerization (ATRCP) of a monomer bearing an oxetane group
 AU Singha, Nikhil K.; de Ruiter, Barteld; Schubert, Ulrich S.
 CS Lab. Macromolecular Organic Chem., Center Nanomaterials, Eindhoven Univ. Technology, Eindhoven, 5600 MB, Neth.
 SO Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2002), 43(2), 165-166
 CODEN: ACPPAY; ISSN: 0032-3934
 PB American Chemical Society, Division of Polymer Chemistry
 DT Journal; (computer optical disk)
 LA English
 AB The atom transfer radical polymerization of Me methacrylate with 3-ethyl-3-(acryloyloxyethyl)oxetane is described. Anal. of the copolymer confirmed that the oxetane ring did not open during polymerization

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2001:663120 CAPLUS
 DN 136:6399
 TI Synthesis and photochemical reaction of high performance UV curing oligomers
 AU Nishikubo, Tadatomi; Kameyama, Atsushi
 CS Department of Applied Chemistry, Faculty of Engineering, Kanagawa University, Kanagawa-ku, Yokohama, 221-8686, Japan
 SO Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2001), 42(2), 722-723
 CODEN: ACPPAY; ISSN: 0032-3934
 PB American Chemical Society, Division of Polymer Chemistry
 DT Journal; (computer optical disk)
 LA English
 AB Calixarene derivs. containing (meth)acrylate, vinyl ether, propargyl ether, oxetane, oxirane, or spiro ortho ester groups were synthesized by reaction of calixarenes with (meth)acrylic acid derivs., vinyl ether compds., propargyl bromide, oxetane derivs., epibromohydrin, and spiro ortho ester derivs. The calixarene derivs. containing photoreactive groups had excellent thermal stability and high photochem. reactivity. The calixarene derivs. are of interest for UV curing systems, e.g., inks, coatings, solder masks, adhesives, and microelectronics uses.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 19 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2001:143711 CAPLUS
 DN 134:194666
 TI Actinic ray-curable sulfur-containing compositions with good curability and manufacture of coatings
 IN Maruyama, Tsutomu
 PA Kansai Paint Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001055507	A	20010227	JP 1999-232626	19990819
PRAI JP 1999-232626		19990819		
AB The compns. contain (A) 5-100 parts S-containing compds. manufactured by a reaction of compds. (average mol. weight 150-1000) having ≥2 SH and compds. having 1 acryloyl group and ≥2 alkoxy silyl groups and optional compds. having 1 acryloyl group and ≥1 epoxy groups and/or oxetane rings at acryloyl/SH molar ratio 0.5-1.2, (B) 0-95 parts photochem. cationically reactive compds., and (C) 0.05-20 parts photochem. cationic polymerization initiators. Thus, a composition containing 100 parts reaction product of pentaerythritol tetrakis(mercaptoacetate) and 3-acryloxypropyl trimethoxysilane and 4 parts CI 2758 (sulfonium salt-based initiator) was applied on a glass plate and cured by UV-irradiation to give a coating showing pencil hardness 6H.				

L3 ANSWER 20 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 1999:810952 CAPLUS
 DN 132:51248
 TI Photocurable hydrolyzed silane composition and photocured product
 IN Sekiguchi, Manabu; Sugiyama, Naoki; Sato, Hozumi
 PA Jsr Corp., Japan
 SO Eur. Pat. Appl., 38 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 965618	A1	19991222	EP 1999-111732	19990617
EP 965618	B1	20040102		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2000001648	A	20000107	JP 1998-170885	19980618
JP 2000026730	A	20000125	JP 1998-194817	19980709
TW 482817	B	20020411	TW 1999-88110061	19990616
KR 2000006232	A	20000125	KR 1999-22643	19990617
US 6207728	B1	20010327	US 1999-335269	19990617
JP 2000109560	A	20000418	JP 1999-219938	19990803
JP 2000109694	A	20000418	JP 1999-219939	19990803
JP 2000109695	A	20000418	JP 1999-220750	19990804

PRAI	JP 1998-170885	A	19980618
	JP 1998-194817	A	19980709
	JP 1998-220512	A	19980804
	JP 1998-220513	A	19980804
	JP 1998-220514	A	19980804

AB Disclosed is a photo-curable composition comprising the following components (A) to (C): (A) hydrolyzable silane compound represented by the general formula (1) or a hydrolyzate thereof: (R₁)_pSi(X)_{4-p} (1) wherein R₁ is a non-hydrolyzable organic group having 1 to 12 carbon atoms, X is a hydrolyzable group, and p is an integer of 0 to 3; (B) photo acid generator; and (C) dehydrating agent. By such constitution, it is possible to provide a photo-curable composition which has a rapid photo-curable rate, is excellent in characteristics such as storage stability, heat resistance, weatherability, scratch resistance and the like, and is applicable to base materials having low heat resistance such as plastics, as well as a cured product obtained therefrom.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 1998:653719 CAPLUS
 DN 129:276496
 TI Hydrolyzable and polymerizable oxetanesilanes
 IN Moszner, Norbert; Volkel, Thomas; Stein, Sabine; Rheinberger, Volker
 PA IVOCLAR A.-G., Liechtenstein
 SO Eur. Pat. Appl., 21 pp.
 CODEN: EPXXDW

DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 867443	A2	19980930	EP 1998-250089	19980313
	EP 867443	A3	20000628		
	EP 867443	B1	20030806		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 19714324	A1	19981029	DE 1997-19714324	19970325
	DE 19714324	B4	20040902		
	AT 246691	T	20030815	AT 1998-250089	19980313
	CA 2232960	A1	19980925	CA 1998-2232960	19980324
	CA 2232960	C	20020129		
	JP 10330485	A	19981215	JP 1998-77593	19980325
	US 6034151	A	20000307	US 1998-47592	19980325
	US 6096903	A	20000801	US 1998-47659	19980325
	US 6284898	B1	20010904	US 2000-591358	20000609
PRAI	DE 1997-19714324	A	19970325		
	US 1997-52563P	P	19970715		
	US 1997-52605P	P	19970715		
	US 1998-47659	A3	19980325		

OS MARPAT 129:276496

AB The title compds., with specified structure, which can be polymerized at room temperature with very little shrinkage, are prepared Stirring 3-ethyl-3-(hydroxymethyl)oxetane with acryloyl chloride in Et₂O containing collidine at room temperature for 6 h gave 50% acrylate ester, reaction of which with 3-(trimethoxysilyl)-1-propanethiol at room temperature for 48 h gave 81% (3-ethyl-3-oxetanyl)methyl 3-[3-(trimethoxysilyl)propyl]thio]propionate (I). Hydrolytic polymerization of an

equimolar mixture of I and Me₂Si(OMe)₂ in refluxing EtOH gave a condensate which was used in a dental cement.

L3 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 1997:579788 CAPLUS
 DN 127:235757
 TI Coating composition comprising a bicyclo- or spiro-orthoester-functional compound
 IN Van Den Berg, Keimpe Jan; Hobel, Klaus; Klinkenberg, Huig; Noomen, Arie;
 Van Oorschot, Josephus Christiaan
 PA Akzo Nobel N.V., Neth.
 SO PCT Int. Appl., 69 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

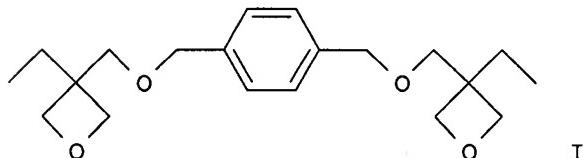
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9731073	A1	19970828	WO 1997-EP892	19970221
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	NL 1002427	C2	19970826	NL 1996-1002427	19960223
	CA 2247126	A1	19970828	CA 1997-2247126	19970221
	AU 9720930	A	19970910	AU 1997-20930	19970221
	ZA 9701542	A	19980727	ZA 1997-1542	19970221
	EP 882106	A1	19981209	EP 1997-906123	19970221
	EP 882106	B1	20000809		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	CN 1214717	A	19990421	CN 1997-193266	19970221
	CN 1128851	B	20031126		
	BR 9707735	A	19990727	BR 1997-7735	19970221
	EP 942051	A2	19990915	EP 1999-201141	19970221
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2000506908	T	20000606	JP 1997-529818	19970221
	AT 195331	T	20000815	AT 1997-906123	19970221
	ES 2150758	T3	20001201	ES 1997-906123	19970221
	PT 882106	T	20010131	PT 1997-906123	19970221
	US 6297329	B1	20011002	US 1997-804485	19970221
	RU 2180674	C2	20020320	RU 1998-117558	19970221
	IN 1997MA00954	A	20061006	IN 1997-MA954	19970506
	TW 418241	B	20010111	TW 1997-86111273	19970806
	NO 9803859	A	19981020	NO 1998-3859	19980821
	AU 754919	B2	20021128	AU 2000-56513	20000906
	GR 3034728	T3	20010131	GR 2000-402417	20001030
	US 2002161135	A1	20021031	US 2001-935308	20010822
	US 6593479	B2	20030715		
PRAI	NL 1996-1002427	A	19960223		
	US 1996-15878P	P	19960422		
	EP 1997-906123	A3	19970221		
	US 1997-804485	A3	19970221		
	WO 1997-EP892	W	19970221		

AB A coating composition comprises a first compound of ≥1 bicyclo- or

spiro-orthoester group and a second compound of ≥ 2 hydroxyl-reactive groups. The latent hydroxyl groups of the bicyclo- or spiro-orthoester groups have to be deblocked and reacted with the hydroxyl-reactive groups of the second compound to be cured. Bicyclo-orthoester compds. are made from the corresponding oxetane compound, as are polymers comprising ≥ 1 bicyclo- or spiro-orthoester group. Thus, Desmodur N 3390 was mixed with 1,4-diethyl-2,6,7-trioxabicyclo[2.2.2]octane in the presence of p-MeC₆H₄SO₃H and Bu₂Sn dilaurate in solvent and sprayed onto steel panels showing pot life >1 day and dry time 100 min.

L3 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 1996:709842 CAPLUS
 DN 125:331792
 TI Activation energy-curable coating compositions containing oxetane compounds with improved curability, gloss, adhesion, hardness, and crack resistance
 IN Niwa, Makoto; Oota, Hiroyuki
 PA Toa Gosei Kk, Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 08239623	A	19960917	JP 1995-64801	19950228
PRAI JP 1995-64801		19950228		
GI				



AB The coating compns. comprise compds. having 1-4 oxetane rings, cationic photopolymn. initiators, and optionally epoxides, vinyl ethers, and (meth)acryloyl compds. Thus, 100 parts compds. having 2 oxetane rings I and 4 parts diphenyl[p-(phenylthio)phenyl]sulfonium hexafluoroantimonate were stirred to give a composition, which was applied to a plywood and exposed to UV to give test pieces with JIS A hardness 7, cross-cut adhesion 8-10, >90% in 60° gloss, pencil hardness 3H, and .apprx.0 crack after thermal crack test (80° for 2 h, -20° for 2 h, repeated 2 times).

L3 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 1996:705278 CAPLUS
 DN 125:331101
 TI Actinic beam-curable adhesive compositions of oxetane compounds
 IN Niwa, Makoto; Oota, Hiroyuki
 PA Toa Gosei Kk, Japan
 SO Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08231938	A	19960910	JP 1995-61898	19950224
PRAI	JP 1995-61898		19950224		
AB	Adhesives for bonding laminates with improved peeling strength and surface appearance contain compds. including 1-4 oxetane rings and photocationic polymerization initiators. Thus, 100 parts p-ROCH ₂ C ₆ H ₄ CH ₂ OR (R = 2-oxetanylbutyl) and 4 parts p-(Ph ₂ S)SC ₆ H ₄ SPh ⁺ SbF ₆ ⁻ were mixed, applied on a biaxially drawn polypropylene (I) film, laminated with an undrawn I film (untreated on the surface), and irradiated with UV to give a test piece showing peeling strength ≥500 g/10 mm and good heat creep resistance.				

L3 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:660747 CAPLUS

DN 125:279010

TI Active energy-curable oxetane compositions for paper coatings with good gloss, adhesion, wear resistance, and flexibility

IN Niwa, Makoto; Oota, Hiroyuki

PA Toa Gosei Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

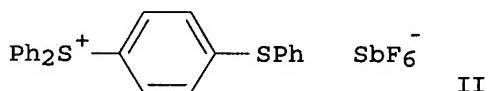
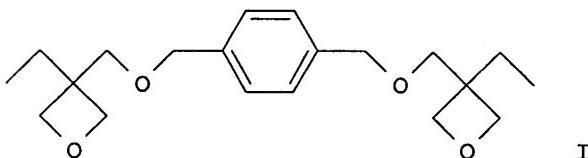
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08218296	A	19960827	JP 1995-50415	19950215
	JP 3364915	B2	20030108		
PRAI	JP 1995-50415		19950215		
GI					



AB The compns. comprise compds. having 1-4 oxetane rings, cationic photopolymer initiators, and optionally epoxides, vinyl ethers, and (meth) acryloyl group-containing compds. Thus, a composition comprising 100 parts a compound with 2 oxetane rings I and 4 parts an initiator II was applied to a paper and exposed to UV to give test pieces with JIS K 5400 cross-cut adhesion 8-10, no crack by bending test, >90% in 60° gloss, and steel wool abrasion resistance.

L3 ANSWER 26 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1973:97399 CAPLUS

DN 78:97399

TI Reductive cleavage of polycyclic oxetanes
AU Sauers, Ronald R.; Schinski, William; Mason, Marion M.; O'Hara, Elizabeth;
Byrne, Bryan

CS Sch. Chem., Rutgers State Univ., New Brunswick, NJ, USA
SO Journal of Organic Chemistry (1973), 38(4), 642-6
CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LA English

GI For diagram(s), see printed CA Issue.

AB The action of H and catalysts, Li-ethylenediamine, Li-NH₃, and alane on several polycyclic oxetanes (I, R = H, Ph, CH₂Ph, α -naphthyl) is reported. In general, ring cleavages were effected which produced several novel alcs.

L3 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1969:414144 CAPLUS

DN 71:14144

TI Oxetane copolymers

IN Maloney, Daniel E.

PA du Pont de Nemours, E. I., and Co.

SO U.S., 4 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3440231	A	19690422	US 1967-610250	19670119
	FR 1551586	A	19681227	FR 1968-1551586	19680117
	NL 6800879	A	19680722	NL 1968-879	19680119
	GB 1154535	A	19690611	GB 1968-1154535	19680119

PRAI US 1967-610250 A 19670119

AB Acyl halide- α -olefin copolymers were treated with 3-amino- (I) or 3-hydroxyoxetane to give copolymers which were useful as coatings for decreasing the shrinking tendencies of proteinaceous and cellulosic substrates. Thus, 10 g. of a random ethylene (II)-methacryloyl chloride copolymer was prepared by reacting a chlorinating agent such as PCl₅ with an II-methacrylic acid copolymer, which was obtained by the process of Canadian Patent 655,298, and was dissolved in 450 ml. PhMe at 70°. Et₃N (3.0 ml.) and 3.0 g. I were added to the solution and, after 30 min. at 70°, the copolymer (III) was precipitated by adding excess Me₂CO. A 2% III solution in perchloroethylene was padded onto 8-in. sqs. of cotton poplin, impregnated with 0.01-0.09 weight % Zn(BF₄)₂. The poplin was heated 30 min. at 125°, then refluxed in PhMe. The amount of III on the fabric was reduced from 2.02 weight % to 0.88 weight %, after refluxing 4 hrs., and to 0.82 weight %, after refluxing 8 hrs. An II-Et acrylate-acryloyl chloride terpolymer was reacted similarly with I. The modified copolymer exhibited higher abrasion resistances than the unmodified copolymers and can be molded into weather-resistant films.

L3 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1965:480121 CAPLUS

DN 63:80121

OREF 63:14690h,14691a-b

TI Bis(trifluoromethyl)ketene

AU England, D. C.; Krespan, C. G.

CS E. I. du Pont de Nemours & Co., Wilmington, DE

SO Journal of the American Chemical Society (1965), 87(17), 4019-20

CODEN: JACSAT; ISSN: 0002-7863

DT Journal
 LA English
 OS CASREACT 63:80121
 GI For diagram(s), see printed CA Issue.
 AB Heating a mixture of $(CF_3)_2CHCO_2H$ and excess P2O5 up to 250° pot temps. gives over 90% $(CF_3)_2C:C:O$ (I). I, b. 5°, and $CF_2:C(CF_3)COF$, b. 52°, are in equilibrium in the vapor phase over anionic catalysts such as NaF. Cycloaddn. to both the C:C and C:O groups of I can occur. Thus, I reacts with $CH_2:CHOBz$ at 100° to give 34% II and 42% III. Simple alkenes also add to I to form cyclobutanones and linear adducts. A condensed phase is necessary, so lower alkenes require higher pressures. A mixture obtained from I and C3H6 at 150° and 800 atmospheric, was separated by gas chromatography into .apprx.70% cyclobutanone derivative and 30% $(CF_3)_2CHCOCH_2CH:CH_2$. I reacts with trioxane in Et2O at 150° in the presence of ZnCl2 as catalyst to give IV, and with PhC.tplbond.CH at 100° to give V. Ir data were given.

=> d his

(FILE 'HOME' ENTERED AT 10:21:10 ON 27 APR 2007)

FILE 'CAPLUS' ENTERED AT 10:21:28 ON 27 APR 2007

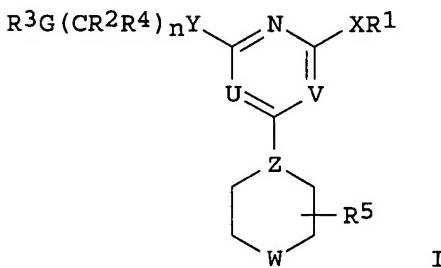
L1 4682 S OXETANE
 L2 11113 S ACRYLOYL
 L3 28 S L1 AND L2

=> s 11 and carbamate
 31159 CARBAMATE
 L4 26 L1 AND CARBAMATE

=> s 14 and isocyanate
 66562 ISOCYANATE
 L5 4 L4 AND ISOCYANATE

L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2006:54836 CAPLUS
 DN 144:128998
 TI Preparation of morpholinopyrimidines and related compounds as modulators
 of interleukin-12 (IL-12) production.
 IN Sun, Lijun; Demko, Zachary; Wada, Yumiko
 PA Synta Pharmaceuticals Corp., USA
 SO PCT Int. Appl., 81 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006007532	A2	20060119	WO 2005-US23346	20050701
	WO 2006007532	A3	20060817		
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	AU 2005262322	A1	20060119	AU 2005-262322	20050701
	CA 2571178	A1	20060119	CA 2005-2571178	20050701
	US 2006063739	A1	20060323	US 2005-174173	20050701
	EP 1765325	A2	20070328	EP 2005-767834	20050701
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
PRAI	US 2004-585124P	P	20040701		
	WO 2005-US23346	W	20050701		
OS	MARPAT	144:128998			
GI					



AB Title compds. [I; R1 = N:CRaRb, NRc(CH2)nRc, cycloalkyl, aryl, heteroaryl;
 R2, R4 = Rc, halo, NO2, cyano, isothionitro, SRc, ORc; R2R4 = CO; R3 = Rc,
 alkenyl, alkynyl, ORc, O2CRc, SO2Rc, SORc, SRc, CORc, CO2Rc, etc.; R5 = H,
 alkyl; G = hydrazide, hydrazone, hydrazine, hydroxylamine, oxime,
 carbamate, thiocarbamate, guanidine, cyanoguanidine, urea,
 sulfamide, phosphoryl, Si(OH)2, CONRcCO, etc.; Y = bond, CH2, CO, C:NRc,

O, S, SO, SO₂, NRc, etc.; U, V = N, CRc; W = O, S, SO, SO₂, NRc, NCORc; Ra, Rb = H, alkyl, aryl, heteroaryl; Rc = H, alkyl, aryl, heteroaryl, cyclyl, heterocyclyl, etc.; n = 0-6], were prepared. Thus, 3-[4-[N'-(3-methylbenzylidene)hydrazino]-6-morpholin-4-ylpyrimidin-2-yl]propan-1-ol (preparation given) was stirred with m-trifluoromethylphenyl isocyanate in MeCN containing cat. 4-dimethylaminopyridine to give (3-trifluoromethylphenyl)carbamic acid 3-[4-[N'-(3-methylbenzylidene)hydrazino]-6-morpholin-4-ylpyrimidin-2-yl]propyl ester. The latter inhibited IL-12 production with an IC₅₀ of <25 nM.

=> d 2-4 bib abs

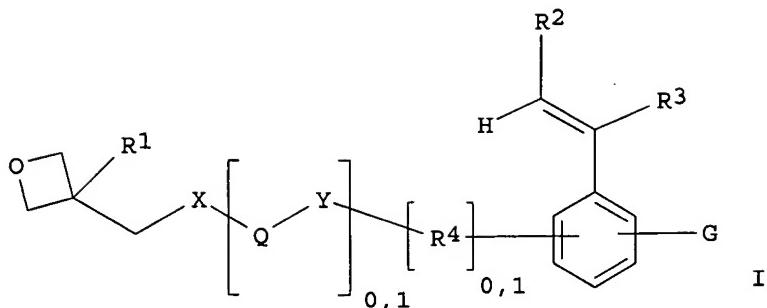
L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2004:964865 CAPLUS
 DN 141:395968
 TI Oxetane compounds containing styrenic functionality
 IN Musa, Osama M.
 PA National Starch and Chemical Investment Holding Corporation, USA
 SO U.S. Pat. Appl. Publ., 5 pp.
 CODEN: USXXCO

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004225071	A1	20041111	US 2003-430086	20030506
	US 6953862	B2	20051011		
	WO 2004101541	A1	20041125	WO 2004-US12489	20040421
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CN 1697832	A	20051116	CN 2004-80000440	20040421
	EP 1620417	A1	20060201	EP 2004-760829	20040421
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	JP 2006516551	T	20060706	JP 2005-518201	20040421
	CN 1944418	A	20070411	CN 2006-10153771	20040421
	US 2005192446	A1	20050901	US 2005-120585	20050503
PRAI	US 2003-430086	A	20030506		
	CN 2004-80000440	A3	20040421		
	WO 2004-US12489	W	20040421		

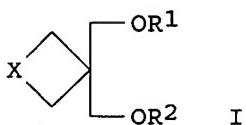
GI



AB The invention relates to compds. containing an oxetane functionality and a styrenic functionality having structure I; wherein R1 is a Me or Et group; R2 and R3 are H or a Me or Et group; R4 is a direct bond or a divalent hydrocarbon; X and Y are independently a direct bond or an ether, ester, amide, or carbamate group, provided both X and Y are not a direct bond; Q is a divalent hydrocarbon (which may contain heteroatoms of N, O, or S); and G is -OR1, -SR1, or -N(R2)(R3), in which R1, R2 and R3 are as described above.. The oxetane functionality is homopolymerizable in reactions that undergo cationic or anionic ring opening, and the styrenic is polymerizable with compds. such as electron acceptor compds. The dual functionality allows for dual cure processing. Thus, styrene carbamate Et oxetane was prepared from 3-ethyl-3-hydroxymethyl-oxetane and 3-isopropenyl- α,α -dimethyl-benzyl isocyanate (m-TMI).

**RE.CNT 70 THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT**

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1996:22563 CAPLUS
DN 124:202752
TI Heterocyclic lipids with PAF antagonist activities 4. Synthesis of 3,3-bis(hydroxymethyl)-oxetane, -thietane and -azetidine, and 1,1-bis(hydroxymethyl)cycloalkane derivatives
AU Chung, Sung-Kee; Ban, Su Ho; Kim, Byung Eog; Woo, Soon Hyung
CS Dept. of Chemistry, Pohang Univ. of Science and Technology, Pohang, 790-784, S. Korea
SO Korean Journal of Medicinal Chemistry (1995), 5(2), 94-111
CODEN: KJMCE7; **ISSN**: 1225-0058
PB Korean Chemical Society
DT Journal
LA English
GI



AB Conformationally constrained analogs of platelet activating factor incorporating a lipophile and a pyridine-like heterocycle coupled to core groups such as 3,3-bis(hydroxymethyl)oxetanes I [X = O, R1 =

$\text{CONH}(\text{CH}_2)_{17}\text{Me}$, $(\text{CH}_2)_{15}\text{Me}$, $\text{CONH}(\text{CH}_2)_{15}\text{Me}$, $\text{R}_2 = \text{H}$, $\text{CONHCH}_2\text{-2-pyridinyl}$, -thietanes I [$\text{X} = \text{S}$, $\text{R}_1 = \text{CONH}(\text{CH}_2)_{17}\text{Me}$, $\text{R}_2 = \text{H}$, $\text{CONHCH}_2\text{-2-pyridinyl}$], -azetidines I [$\text{X} = \text{NAc}$, $\text{R}_1 = \text{CONH}(\text{CH}_2)_{17}\text{Me}$, $\text{CONH}(\text{CH}_2)_{15}\text{Me}$, $\text{R}_2 = \text{H}$, $\text{CONHCH}_2\text{-2-pyridinyl}$], and 1,1-bis(hydroxymethyl)cycloalkanes I [$\text{X} = (\text{CH}_2)_n$, $n = 1-4$, $\text{R}_1 = \text{CONH}(\text{CH}_2)_{17}\text{Me}$, $\text{CONH}(\text{CH}_2)_{15}\text{Me}$, $\text{R}_2 = \text{H}$, $\text{CONHCH}_2\text{-2-pyridinyl}$] through hydrogen bond accepting linkages such as ether, ester and carbamate have been synthesized as potent PAF receptor antagonists.

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:22562 CAPLUS

DN 124:202751

TI Heterocyclic lipids with PAF antagonist activities 3. Synthesis of 2,4-bis(hydroxymethyl)-oxetane and 1,3-bis(hydroxymethyl)cyclobutane derivatives

AU Chung, Sung-Kee; Ban, Su Ho; Woo, Soon Hyung

CS Dep. of Chemistry, Pohang Univ. of Science and Technology, Pohang, 790-784, S. Korea

SO Korean Journal of Medicinal Chemistry (1995), 5(2), 84-93

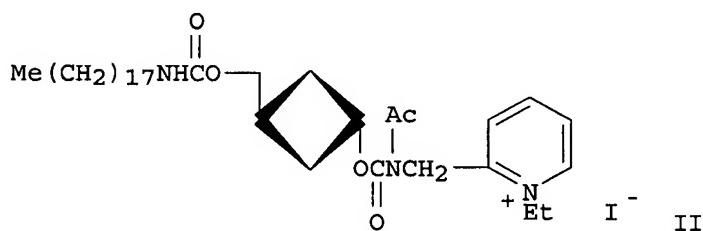
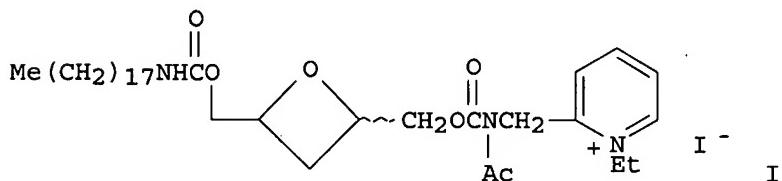
CODEN: KJMCE7; ISSN: 1225-0058

PB Korean Chemical Society

DT Journal

LA English

GI



AB Conformationally constrained analogs of platelet activating factor incorporating a lipophile and a pyridine-like heterocycle linked to core groups such as 2,4-bis(hydroxymethyl)oxetane, e.g. I, and 1,3-bis(hydroxymethyl)cyclobutane, e.g. II, via hydrogen bond acceptors such as carbamate and ether have been synthesized as potent PAF receptor antagonists.

Inventor Information for 10/588072

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MORINAKA, KATSUTOSHI	KANAGAWA	JAPAN
UCHIDA, HIROSHI	KANAGAWA	JAPAN

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10/588,072

EAST - [space that works.wsp:1]

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Ref #	Hits	Search@Query	DBs
L1	747	(549/510).CCLS.	USPAT
L2	90	I1 and carbamate	USPAT
L3	28	I1 and \$acryloyl	USPAT
L4	1	I2 and I3	USPAT
L5	24	I2 and isocyanate	USPAT
L6	166	I1 and oxetane	USPAT
L7	20	I6 and carbamate	USPAT

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